

ABSTRACT

Academic Institution have to improve high student performance, as in BINUS INTERNATIONAL are on a mission to encourage the highest student achievement and graduatinng on time. To achieve this, one way is to find the explicit knowledge in academic information, using data mining. Build data mining models were able to predict the status of pass or fail a student in this course is taken, as an early information to encourage more student learning. In this study, build three models of three data mining techniques Decision Tress, Neural Network and Naive Bayes. Naïve Bayes is a model that has the highest level of accuracy in making predictions. In the development of the data mining using the CRISP-DM methodology. From this prediction grade, GPS and GPA can be calculated, and then this information can be accessed directly from a web application by internal institution, lecturers and students. Information becomes important for institution to determine academic policies to improve student academic achievement (HCZ).

Keywords:

Data mining, decision tree, naïve bayes, academic performance, grade prediction, GPA prediction.